

Jamie 4/21/89
McDONNELL

WELL NO. 2

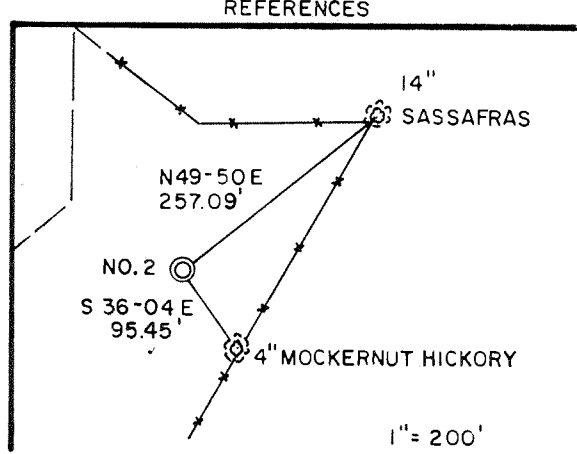
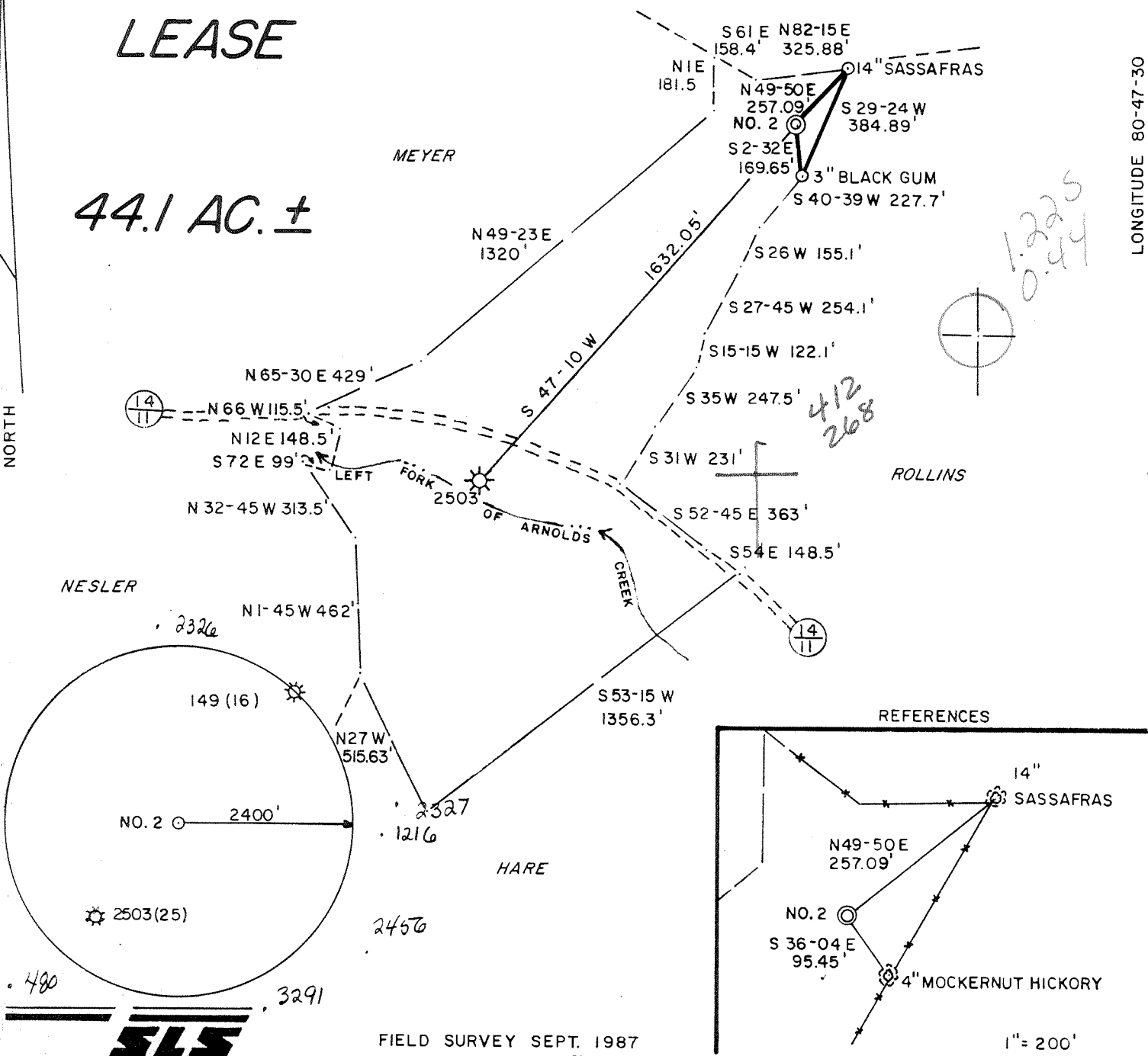
LEASE

44.1 AC. ±



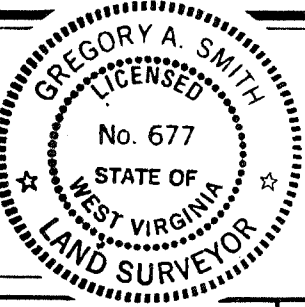
LONGITUDE 80-47-30
6510

NORTH



FIELD SURVEY SEPT. 1987

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENERGY.



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE MARCH 20, 19 89
OPERATORS WELL NO. McDONNELL NO. 2
WVDODD000702
API WELL NO. 47-017-3715
STATE COUNTY PERMIT

L.L.S. 677 Gregory A. Smith

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 1722 (21-55)
PROVEN SOURCE OF ELEVATION JUNCT. OF ROADS ELEV. 816' SCALE 1" = 500'

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION



WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL IF "GAS" PRODUCTION STORAGE DEEP SHALLOW
LOCATION: ELEVATION 1153' WATERSHED LEFT FORK OF ARNOLDS CREEK
DISTRICT WEST UNION COUNTY DODDRIDGE QUADRANGLE WEST UNION 7.5' 671
SURFACE OWNER PHYLLIS ROLLINS ACREAGE 44.1
ROYALTY OWNER LACY V. ROWE et al. LEASE ACREAGE 44.1
PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG OTHER
PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION ALEXANDER
ESTIMATED DEPTH 5450'

WELL OPERATOR EASTERN AMERICAN ENERGY CORP DESIGNATED AGENT JOHN M. PALETTI
ADDRESS BOX N GLENVILLE, WV 26351 ADDRESS 501 56TH ST. CHARLESTON, WV 25304

APR 28 1989
6-6 Straight Fork-Bluestone Creek (133)

State of West Virginia
DEPARTMENT OF ENERGY
Division of Oil and Gas

Well Operator's Report of Well Work

Farm name: ROLLINS, PHYLLIS Operator Well No.: MCDONNEL 2

LOCATION: Elevation: 1153.00 Quadrangle: WEST UNION

District: WESTUNION County: DODDRIDGE
Latitude: 6510 Feet South of 39 Deg. 17Min. 30 Sec.
Longitude 2400 Feet West of 80 Deg. 47 Min. 30 Sec.

Company: EASTERN AMERICAN ENERGY C
501 56TH ST.
CHARLESTON, WV 25304-0000

Agent: DONALD C. SUPCOE

Inspector: MIKE UNDERWOOD
Permit Issued: 04/27/89
Well work Commenced: 08/17/89
Well work Completed: 09/19/89
Verbal Plugging
Permission granted on: _____
Rotary Cable _____ Rig _____
Total Depth (feet) 5539'
Fresh water depths (ft) 450', 588'

Salt water depths (ft) 1927'

Is coal being mined in area (Y/N)? N
Coal Depths (ft): None

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8-5/8"	1279.35'	1279.35'	C.T.S.
4-1/2"	5419.70'	5419.70'	685
1-1/2"		5336'	

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DEPARTMENT OF ENERGY

OPEN FLOW DATA

2nd Riley, Riley, Warren (Commingled)

Producing formation Alexander, Benson/3rd Riley Pay zone depth (ft) 5361'-3426'
Gas: Initial open flow 978 MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow 750 MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests 15 Hours
Static rock Pressure 1380 psig (surface pressure) after 24 Hours

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: Rich Heffelfinger
EASTERN AMERICAN ENERGY CORP.

By: Rich Heffelfinger, Vice President - Regional Operations
Date: October 4, 1989

OCT 20 1989

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

4-STAGE FOAM FRAC

- STAGE 1: Alexander: 14 holes (5361'-5310') Breakdown 2300 psi, 60 Quality Foam, 30 lbs/1000 gals Gel, 50,000 lbs 20/40 sand, 500 gals 15% HCl, 557,600 scf of N₂
- STAGE 2: Benson/3rd Riley/2nd Riley: 12 holes (5039'-4901.9') Breakdown 3810 psi, 60 Quality Foam, 20 lbs/1000 gals Gel, 25,000 lbs 20/40 sand, 500 gals 15% HCl, 426,299 scf of N₂
- STAGE 3: Riley: 10 holes (4627.5'-4592') Breakdown 1250 psi, 75 Quality Foam, 30 lbs/1000 gals Gel, 30,000 lbs 20/40 sand, 500 gals 15% HCl, 607,300 scf of N₂
- STAGE 4: Warren: 14 holes (3560.5'-3426') Breakdown 1390 psi, 75 Quality foam, 30 lbs/1000 gals Gel, 25,000 lbs 20/40 sand, 650 gals 28% HCl, 525,600 scf of N₂

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Soil			0	5	
Sand and Sandy Shale			5	90	
Shale and Red Rock			90	180	
Sand			180	290	
Shale and Red Rock			290	450	Hole damp @ 450'
Sand			450	625	3/4" Water @ 588'
Sandy Shale and Red Rock			625	665	Hole Damp @ 1925'
Sand and Sandy Shale			665	1995	Soap Hole @ 1940'
Little Lime			1995	2004	
Sand & Shale			2004	2038	
Big Lime			2038	2097	
Sand and Shale			2097	2174	
Shale			2174	2266	
Siltstone			2266	2328	
Weir			2328	2439	
Siltstone			2439	2502	
Shale w/Tr. Sandstone			2502	3393	
Warren			3393	3407	
Shale w/Tr. Sandstone			3407	4518	
Riley			4518	4636	
Shale w/Tr. Sandstone			4636	5032	
Benson			5032	5066	
Shale w/Tr. Sandstone			5066	5286	
Alexander			5286	5365	
Shale			5365	5539 T.D.	

GAS CHECKS:

- 2033' - No show
- 2215' - No show
- 2555' - 6/10 thru 1" w/water
- 3449 - 0 - 70/10 thru 1" w/water
- 4061 - 4/10 thru 1" w/water
- 4707 - 10/10 thru 1" w/water
- 5045 - 8/10 thru 1" w/water
- 5354 - 10-20/10 thru 2" w/water
- D.C. - 6/10 thru 1" w/water

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DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

5539

NOV 10 1989

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS
 WELL WORK PERMIT APPLICATION

- 1) Well Operator: Eastern American Energy Corporation 14980 (8) 670
- 2) Operator's Well Number: MCDONNELL #2 - WVDOD000702 3) Elevation: 1,153
- 4) Well type: (a) Oil / or Gas /
 (b) If Gas: Production / Underground Storage /
 Deep / Shallow /
- 5) Proposed Target Formation(s): Alexander 439
- 6) Proposed Total Depth: 5,450 feet 564'
- 7) Approximate fresh water strata depths: 192 254', 324', 339'
- 8) Approximate salt water depths: None 1764'
- 9) Approximate coal seam depths: 282, 899 624-632', 282-289', 899-902'
- 10) Does land contain coal seams tributary to active mine? Yes / No /
- 11) Proposed Well Work: Drill and complete new well.
- 12)

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	11"	F-25	37.5			
Fresh Water	8 5/8"	J-55	20.0	1,253	1,253	C.T.S. 38CSR18-11.3 38CSR18-11.2
Coal						
Intermediate				5,370	5,370	
Production	4 1/2"	J-55	10.5			38CSR18-11.1
Tubing	1 1/2"	H-40	2.75			
Liners						

PACKERS : Kind _____
 Sizes _____
 Depths set _____

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For Division of Oil and Gas Use Only
 DIVISION OF OIL & GAS
 DEPARTMENT OF ENERGY

Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-2B Bond Blanket Agent
 (Type)

8539

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Form WW2-A
(09/87)
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DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

1) Date: April 7, 1989
2) Operator's well number
MCDONNELL #2 - WVDOD000702
3) API Well No: 47 - 017 - 3715
State - County - Permit

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>4) Surface Owner(s) to be served:</p> <p>(a) Name <u>Phyllis Rollins</u>
Address <u>Rt. 1, Box 45</u>
<u>West Union, WV 26456</u></p> <p>(b) Name _____
Address _____</p> <p>(c) Name _____
Address _____</p> | <p>5) (a) Coal Operator:</p> <p>Name <u>None</u>
Address _____</p> <p>(b) Coal Owner(s) with Declaration</p> <p>Name _____
Address _____</p> <p>Name _____
Address _____</p> <p>(c) Coal Lessee with Declaration</p> <p>Name _____
Address _____</p> |
| <p>6) Inspector <u>Mike Underwood</u>
Address <u>Route 2, Box 135</u>
<u>Salem, WV 26426</u>
Telephone (304)- <u>782-1043</u></p> | |

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

_____ Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR XX Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through 8 on the above named parties, by:

- _____ Personal Service (Affidavit attached)
- XX Certified Mail (Postmarked postal receipt attached)
- _____ Publication (Notice of Publication attached)

I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator Eastern American Energy Corporation
By: John M. Paletti *John M. Paletti*
Its: Designated Agent
Address P.O. Box N
Glenville, WV 26351
Telephone (304) 462-5781

Subscribed and sworn before me this 29th day of March, 1989

J. Louise Lowe Notary Public
My commission expires July 2, 1996